Replication file „Responding in time“

The replication can be thought of as four separate analyses

1) The training of the transformer time pressure models
2) The application of the transformer model to predict time pressure invocations
3) Preparing the analysis data (merging the Eurobarometer, asylum and time pressure data)
4) The analysis of the invocations as dependent variable

1) The training of the transformer time pressure models

Only two elements are needed for this component of the analysis. The gold-label training data and the code. The code is written in Python and has been executed in Google Colab. Since the code is annotated in detail, replicators should simply follow the instructions. Although it is common knowledge that transformer models are not 100% reproducible, we used seeds to facilitate the replication of the models. The gold label training data and the code for training the different models are in this Dataverse.

Related files:

- Time_pressure_invocations_replication (training code | ipynb | python)

  Note: GPUs are needed.

- Multilabel_gold_all_training (training data | xlsx)

2) The application of the transformer model to predict time pressure invocations

The second step involves applying the time-pressure models to predict invocation in Commission speech data. This can be achieved without training the models again, simply by using the stored models. These models can also be used to predict invocation in other data sets. As these models are very large, we are happy to send them upon request: Please send a request to Leonce.Roeth@gsi.uni-muenchen.de

Related files:

- All relevant model files stored in folders for the time pressure types (explicit, implicit)
  - Config (JSON)
  - Model.safetensors (SAFETENSORS)
  - Special_tokens_map (JSON)
  - Tokenizer_config (JSON)
  - Vocab (text)

3) Preparing the analysis data

In the third step, we prepared the data for analysis. This involved adding asylum data for the European Union, as well as merging and aggregating the MIP items of the Eurobarometer. The Dataverse contains the R code required to perform this data aggregation. We are not entitles to upload the original asylum data as well as the Eurobarometer waves. Those have to be taken from the sources indicated in the paper.

Related files:

- data_generation (code | RMD | R)

4) The analysis of the invocations as dependent variable

Finally, we analyse the relationship between asylum numbers and public opinion data and the invocation of time pressure within Commission speeches. The final analysed data and the related R code have been uploaded to the Dataverse. The code is annotated to guide you through the analysis.

Related files:

- analysis_data (analysis data | xlsx)
- Analysis_respondng_in_time (analysis code | RMD | R)